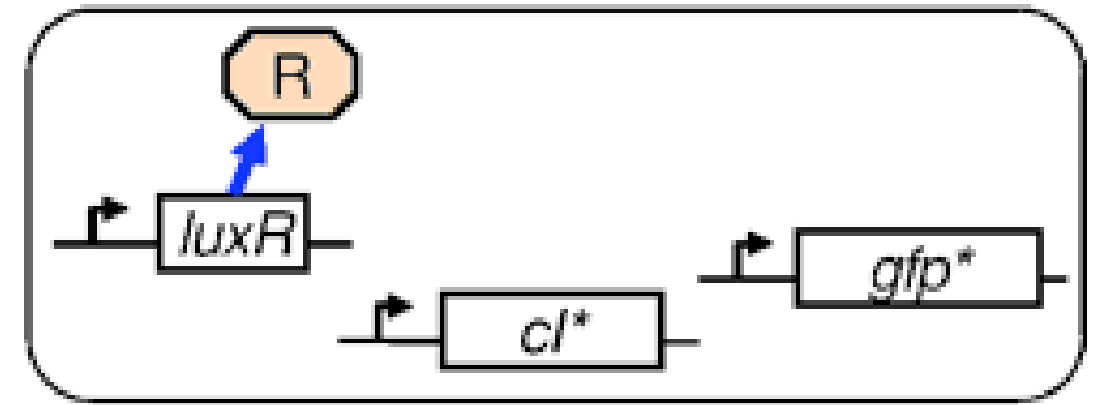
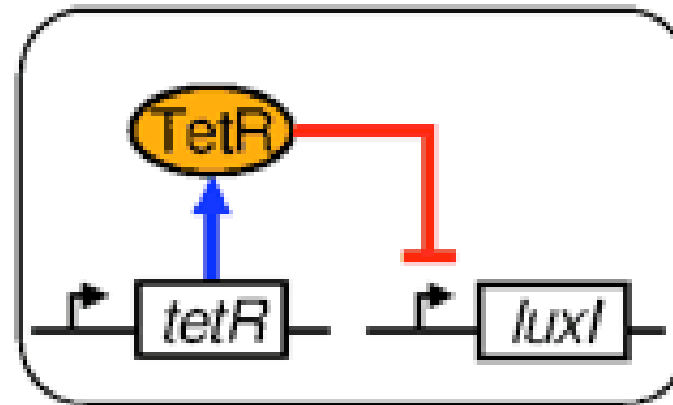


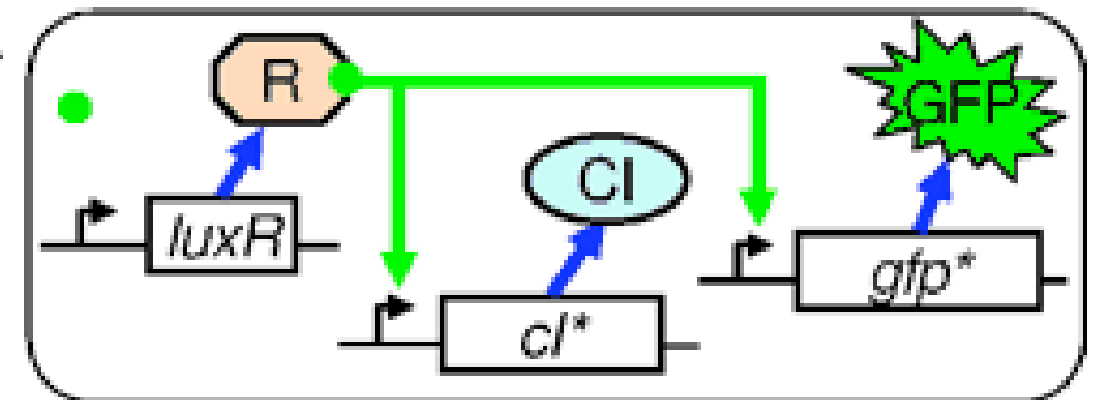
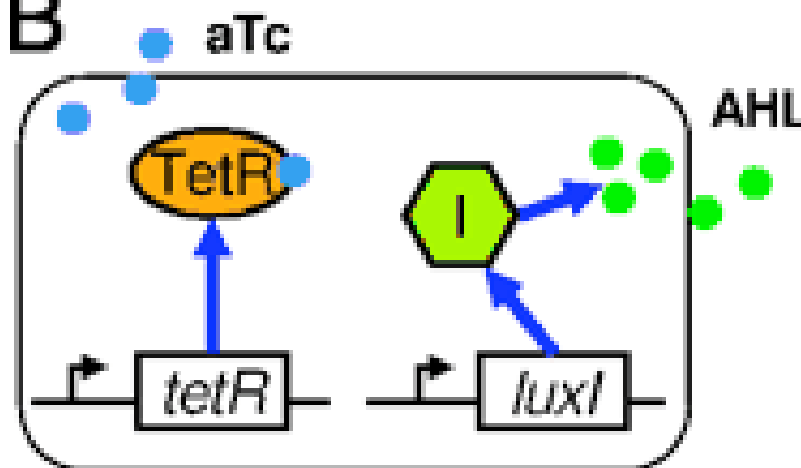
Sender

Pulse Generator

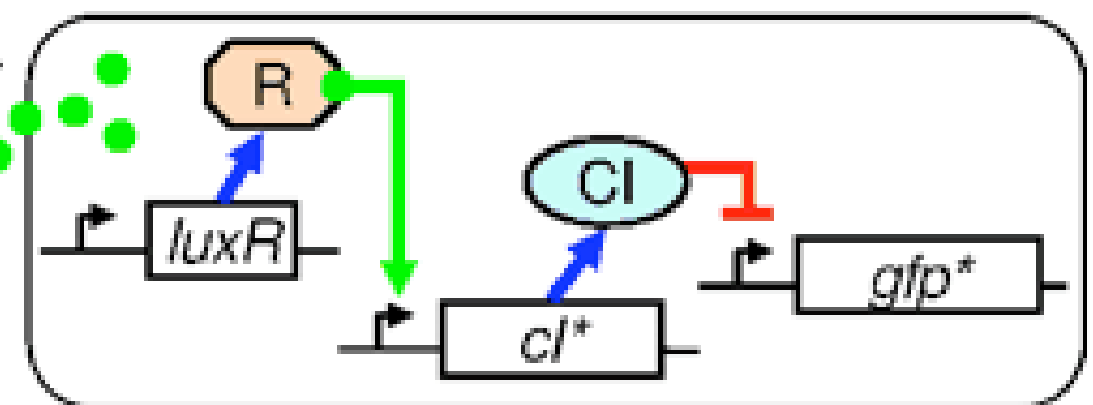
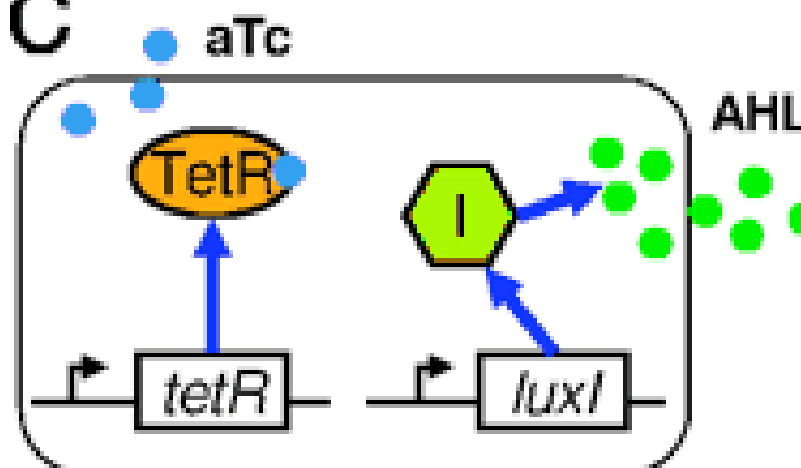
A



B



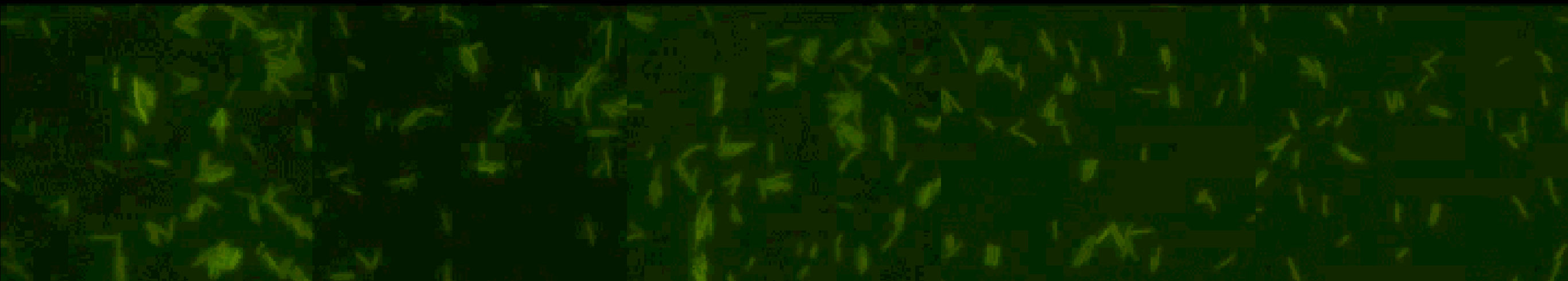
C



Spatiotemporal control of gene expression with pulse-generating networks

Subhayu Basu , Rishabh Mehreja , Stephan Thiberge , Ming-Tang Chen , and Ron Weiss

PNAS | April 27, 2004 | vol. 101 | no. 17 | 6355-6360



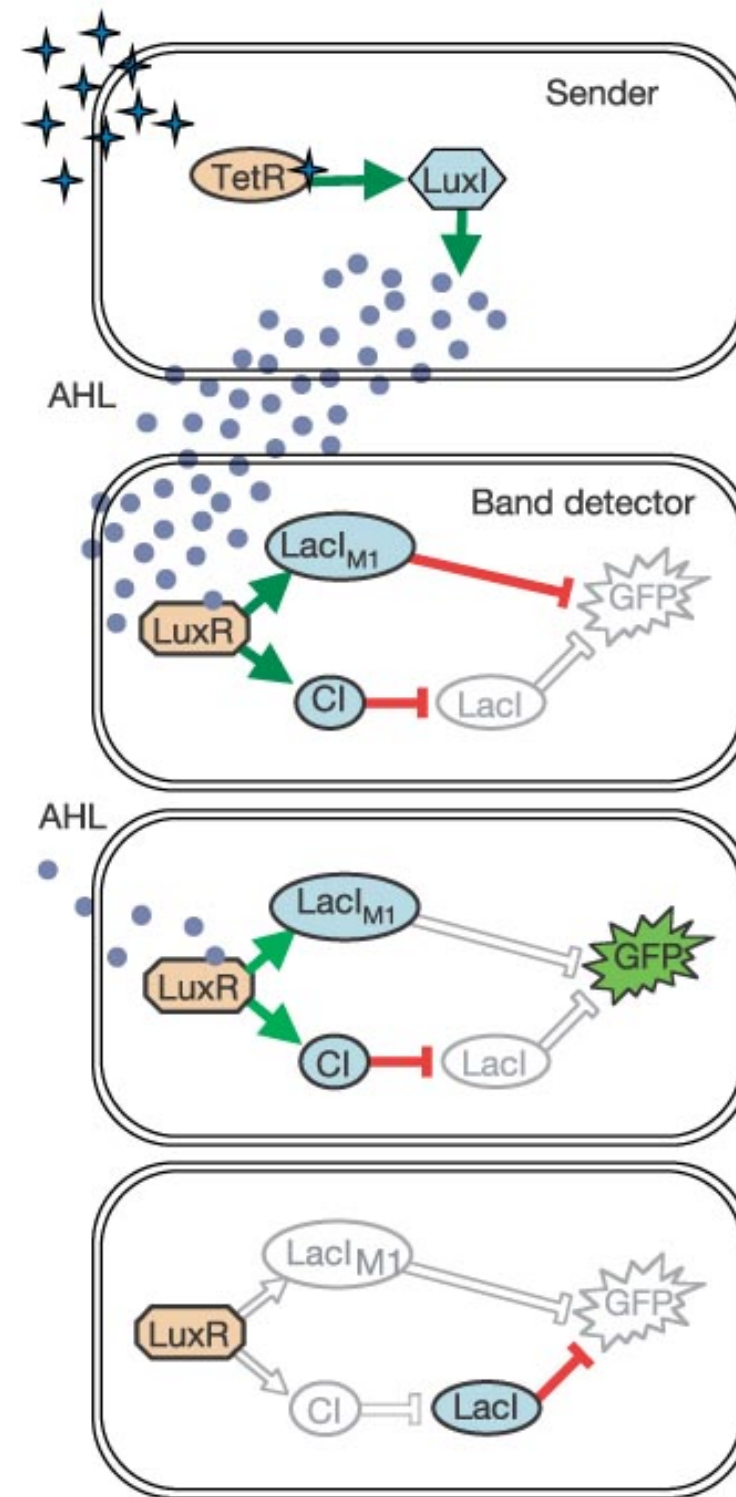
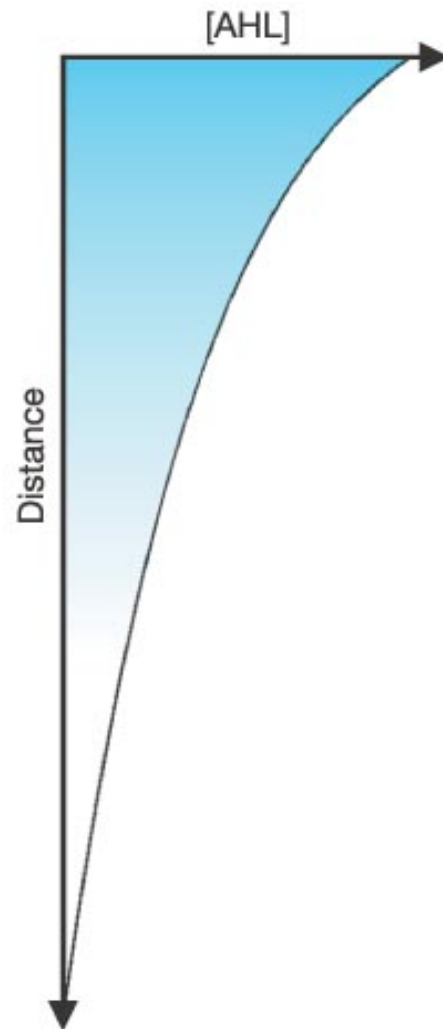
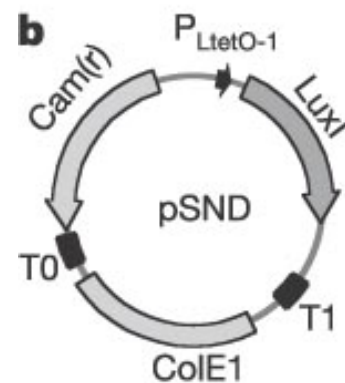
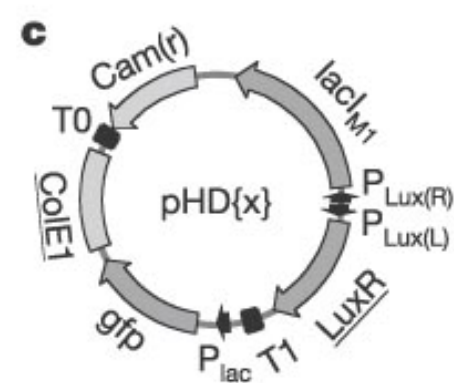
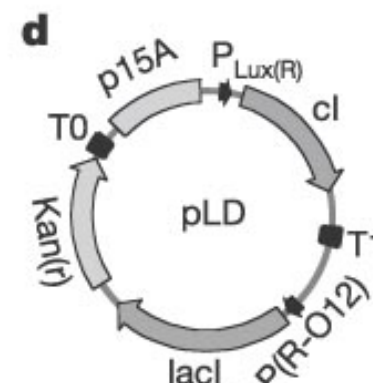
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Weiss

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**a**

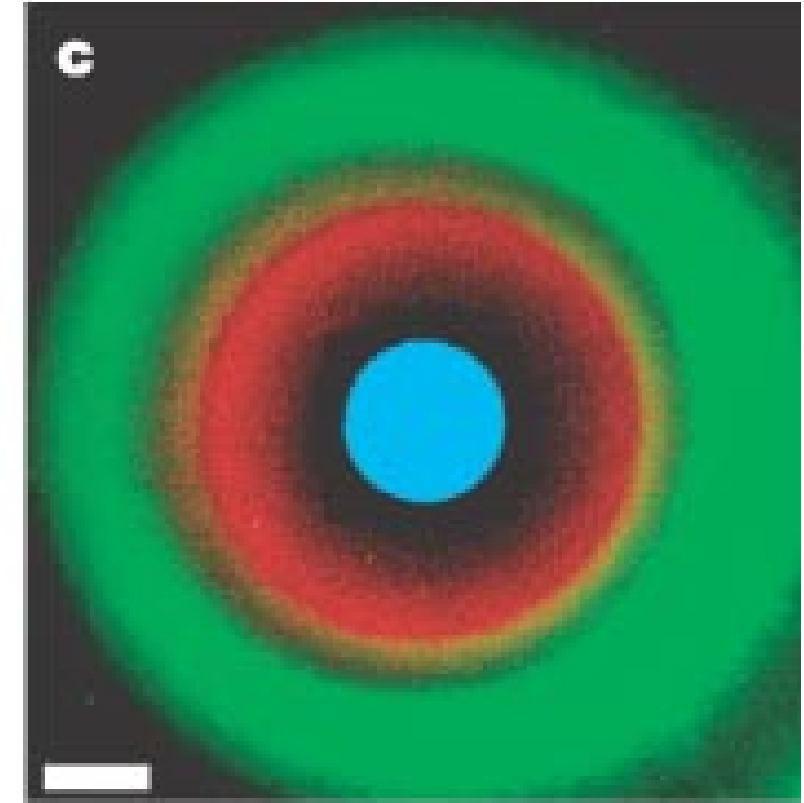
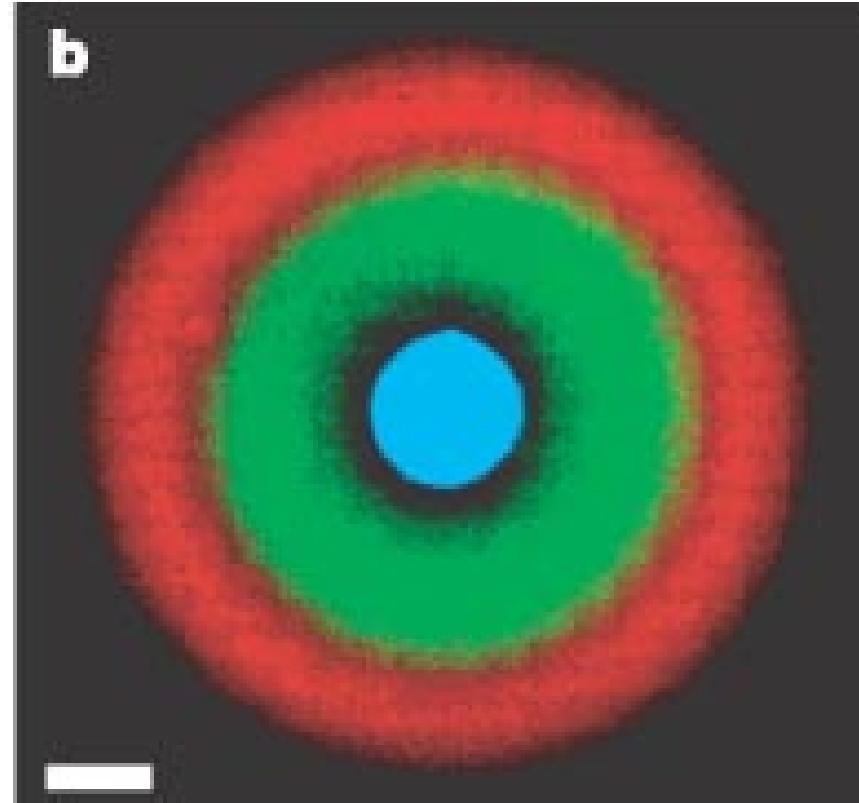
AHL	CI	LacI <sub>M1</sub>	LacI	GFP
++	++	++	-	-
+	+	+	-	+
-	-	-	++	-

**b****c****d**

A synthetic multicellular system for programmed pattern formation

Subhayu Basu, Yoram Gerchman, Cynthia H. Collins, Frances H. Arnold and Ron Weiss

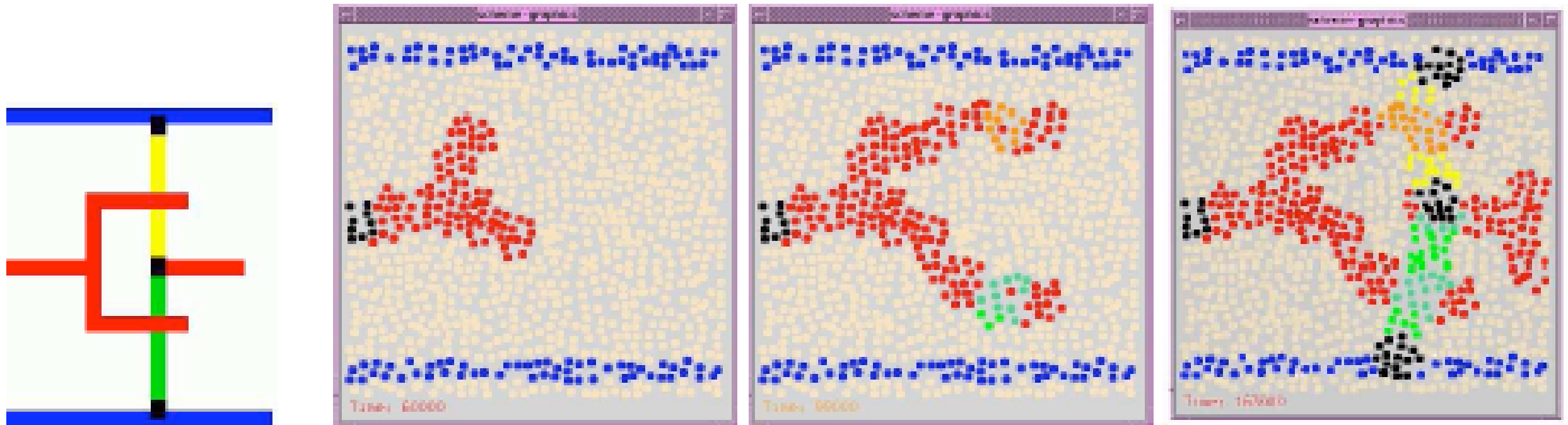
Nature 434, 1130-1134 (28 April 2005) | doi: 10.1038/nature03461



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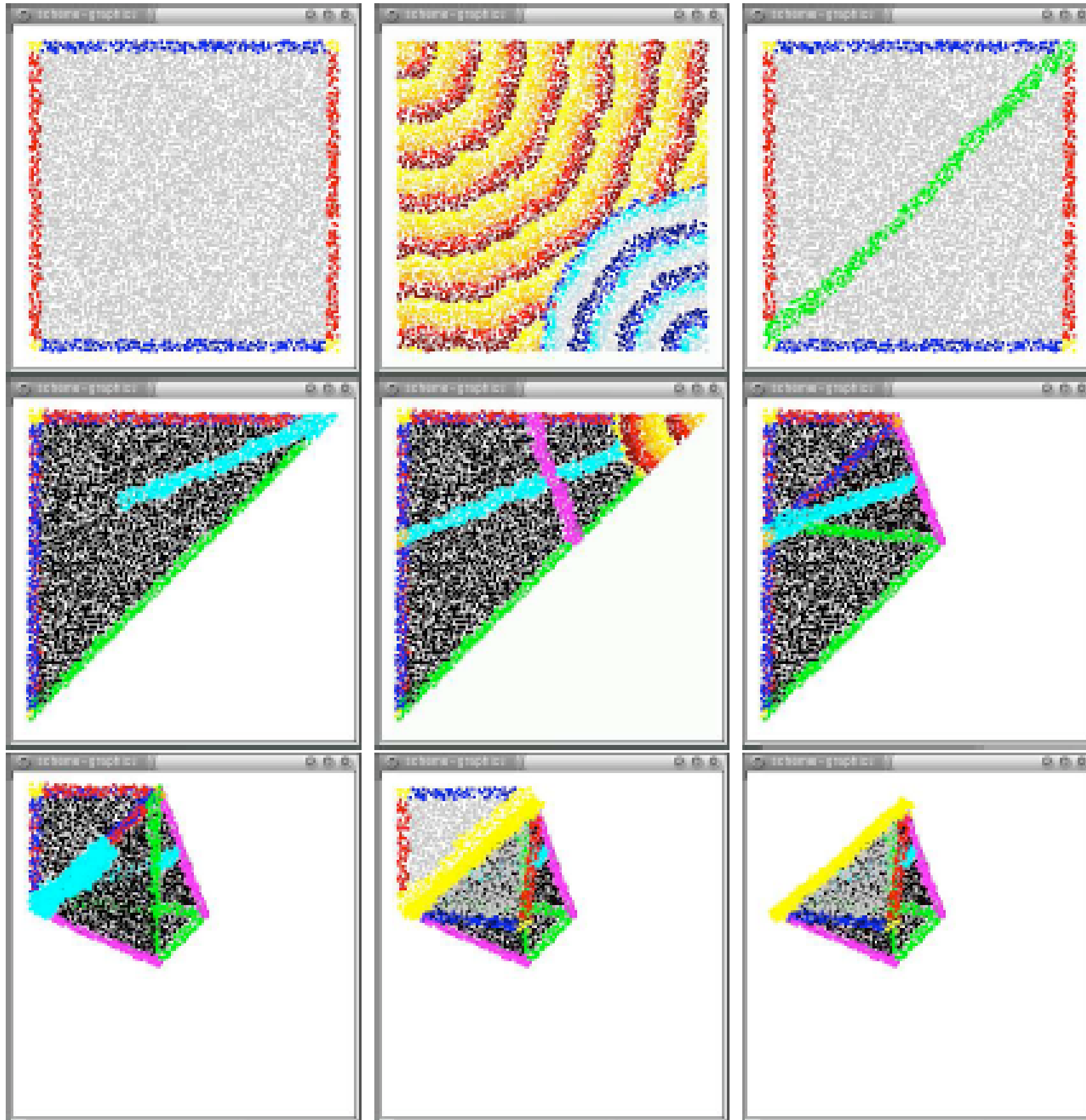


*Figure 1.3.* The amorphous surface differentiating to create the inverter pattern. All agents execute the same program, which is compiled directly from the GPL specification of the pattern on the left.

Engineering Amorphous Computing Systems

Radhika Nagpal & Marco Mamei

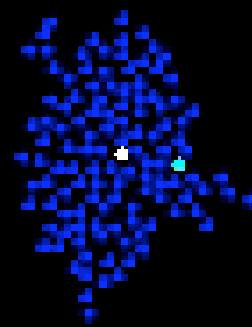
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Robust Engineering Using Biologically-inspired  
Models of Cell Differentiation and  
Morphogenesis.

Radhika Nagpal & Gerry Sussman

[http://www.swiss.ai.mit.edu/projects/  
amorphous/Robust/](http://www.swiss.ai.mit.edu/projects/amorphous/Robust/)